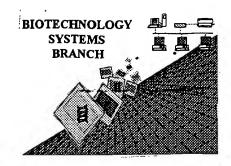# RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: _O9/678,202_

Source: _OIPE_

Date Processed by STIC: _10/13/2000_

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY
FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.
PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)
PATENTIN 3.0 e-mail help: patin30help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.
Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:
http://www.uspto.gov/web/offices/pac/checker

OIPE

RAW SEQUENCE LISTING   DATE: 10/13/2000
PATENT APPLICATION: US/09/678,202 TIME: 08:21:45

Input Set : A:\41720003.app
Output Set: N:\CRF3\10132000\I678202.raw

```
 3 <110> APPLICANT: Bar-Or, David
 4         Curtis, C. G.
 5         Lau, Edward
 6         Rao, Nagarajo K.R.
 7         Winkler, James V.
 9 <120> TITLE OF INVENTION: METAL BINDING COMPOUNDS AND USES THEREFOR
11 <130> FILE REFERENCE: 4172-3
13 <140> CURRENT APPLICATION NUMBER: US/09/678,202
14 <141> CURRENT FILING DATE: 2000-09-29
16 <150> PRIOR APPLICATION NUMBER: 60/157,404
17 <151> PRIOR FILING DATE: 1999-10-01
19 <150> PRIOR APPLICATION NUMBER: 60/211,078
20 <151> PRIOR FILING DATE: 2000-06-13
22 <160> NUMBER OF SEQ ID NOS: 6
24 <170> SOFTWARE: PatentIn Ver. 2.1
26 <210> SEQ ID NO: 1
27 <211> LENGTH: 4
28 <212> TYPE: PRT
29 <213> ORGANISM: Homo sapiens
31 <400> SEQUENCE: 1
32 Asp Ala His Lys
33    1
36 <210> SEQ ID NO: 2
37 <211> LENGTH: 8
38 <212> TYPE: PRT
39 <213> ORGANISM: Artificial Sequence
41 <220> FEATURE:
42 <223> OTHER INFORMATION: Description of Artificial Sequence:metal
44 <220> FEATURE:
45 <221> NAME/KEY: METAL
46 <222> LOCATION: (1)..(4)
47 <223> OTHER INFORMATION: copper, nickel and other transition metals
49 <220> FEATURE:
50 <221> NAME/KEY: METAL
51 <222> LOCATION: (5)..(8)
52 <223> OTHER INFORMATION: copper, nickel and other transition metals
54 <220> FEATURE:
55 <221> NAME/KEY: VARIANT
56 <222> LOCATION: (8)
57 <223> OTHER INFORMATION: Xaa = Orn
59 <400> SEQUENCE: 2
60 Asp Ala His Gly Gly His Ala Xaa
61    1               5
64 <210> SEQ ID NO: 3
65 <211> LENGTH: 12
66 <212> TYPE: PRT
67 <213> ORGANISM: Homo sapiens
```

```
                  RAW SEQUENCE LISTING                DATE: 10/13/2000
                  PATENT APPLICATION:  US/09/678,202  TIME: 08:21:45

                  Input Set : A:\41720003.app
                  Output Set: N:\CRF3\10132000\I678202.raw

     69 <400> SEQUENCE: 3
     70 Asp Ala His Lys Ser Glu Val Ala His Arg Phe Lys
     71   1           5                   10
     74 <210> SEQ ID NO: 4
     75 <211> LENGTH: 11
     76 <212> TYPE: PRT
     77 <213> ORGANISM: Homo sapiens
     79 <400> SEQUENCE: 4
     80 Ala His Lys Ser Glu Val Ala His Arg Phe Lys
     81   1           5                   10
     84 <210> SEQ ID NO: 5
     85 <211> LENGTH: 10
     86 <212> TYPE: PRT
     87 <213> ORGANISM: Homo sapiens
     89 <400> SEQUENCE: 5
     90 His Lys Ser Glu Val Ala His Arg Phe Lys
     91   1           5                   10
     94 <210> SEQ ID NO: 6
     95 <211> LENGTH: 12
     96 <212> TYPE: PRT
     97 <213> ORGANISM: Artificial Sequence
     99 <220> FEATURE:
    100 <221> NAME/KEY: MOD_RES
    101 <222> LOCATION: (1)
    102 <223> OTHER INFORMATION: ACETYLATION
    104 <220> FEATURE:
    105 <223> OTHER INFORMATION: Description of Artificial Sequence:variant
    107 <400> SEQUENCE: 6
    108 Asp Ala His Lys Ser Glu Val Ala His Arg Phe Lys
    109   1           5                   10
```

give source of genetic material
"Variant" is appropriate
for a <221> NAME/KEY:
response; however,
<223> requires source
of Artificial Sequence
(see circled portion
of item 12 on
Err Summary
sheet)

VERIFICATION SUMMARY   DATE: 10/13/2000
PATENT APPLICATION: US/09/678,202   TIME: 08:21:46

Input Set : A:\41720003.app
Output Set: N:\CRF3\10132000\I678202.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application Number
L:60 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2

Raw Sequence Listing Error Summary

<u>ERROR DETECTED</u> <u>SUGGESTED CORRECTION</u> SERIAL NUMBER: _09/678,202_

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1 _____ Wrapped Nucleics
The number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".

2 _____ Wrapped Aminos
The amino acid number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".

3 _____ Incorrect Line Length
The rules require that a line not exceed 72 characters in length. This includes spaces.

4 _____ Misaligned Amino Acid Numbering
The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs
between the numbering. It is recommended to delete any tabs and use spacing between the numbers.

5 _____ Non-ASCII
This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.
Please ensure your subsequent submission is saved in ASCII text so that it can be processed.

6 _____ Variable Length
Sequence(s) _____ contain n's or Xaa's which represented more than one residue.
As per the rules, each n or Xaa can only represent a single residue.
Please present the maximum number of each residue having variable length and
indicate in the (ix) feature section that some may be missing.

7 _____ PatentIn ver. 2.0 "bug"
A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid
sequence(s) _____. Normally, PatentIn would automatically generate this section from the
previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section
to the subsequent amino acid sequence. **This applies primarily to the mandatory <220>-<223>
sections for Artificial or Unknown sequences.**

8 _____ Skipped Sequences (OLD RULES)
Sequence(s) _____ missing. If intentional, please use the following format for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X:
(i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:
This sequence is intentionally skipped

Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).

9 _____ Skipped Sequences (NEW RULES)
Sequence(s) _____ missing. If intentional, please use the following format for each skipped sequence.
<210> sequence id number
<400> sequence id number
000

10 _____ Use of n's or Xaa's (NEW RULES)
Use of n's and/or Xaa's have been detected in the Sequence Listing.
Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

11 _____ Use of <213>Organism (NEW RULES)
Sequence(s) _____ are missing this mandatory field or its response.

12 _____ Use of <220>Feature (NEW RULES)
Sequence(s) _____ are missing the <220>Feature and associated headings.
Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown"
Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32)   (Sec. 1.823 of new Rules)

13 _____ PatentIn ver. 2.0 "bug"
Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted
file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).
Instead, please use "File Manager" or any other means to copy file to floppy disk.